FoxO4 (Phospho Ser193) Rabbit pAb

CatalogNo: YP1343

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 55kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized phosho peptide around human FoxO4 (Ser193)
Specificity	This antibody detects endogenous levels of Human FoxO4 (phospho-Ser193)

Target Information

Gene name	FOXO4 AFX AFX1 MLLT7

Protein Name Forkhead box protein O4 (Ser193)

Organism	Gene ID	UniProt ID
Human	4303;	P98177;
Mouse	54601;	Q9WVH3;

Cellular Localization Cytoplasm. Nucleus. When phosphorylated , translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation. Monoubiquitination increases nuclear localization. When deubiquitinated , translocated from nucleus to cytoplasm.

Tissue specificity Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Isoform zeta is most abundant in the liver , kidney , and pancreas.

Function Disease:A chromosomal aberration involving FOXO4 is found in acute leukemias. Translocation t (X;11) (q13;q23) with MLL/HRX. The result is a rogue activator protein. ,Function:Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle. ,pharmaceutical:A constitutively active FOXO4 mutant where phosphorylation sites Thr-32 , Ser-187 and Ser-262 have been mutated to alanine may have therapeutic potential in ERBB2/HER2-overexpressing cancers as it inhibits ERBB2-mediated cell survival , transformation and tumorigenicity. ,PTM:Acetylation by CBP , which is induced by peroxidase stress , inhibits transcriptional activity. Deacetylation by SIRT1 is NAD-dependent and stimulates transcriptional activity. ,PTM:Phosphorylation by PKB/AKT1 inhibits transcriptional activity and is responsible for cytoplasmic localization. ,similarity:Contains 1 fork-head DNA-binding domain. ,subcellular location:When phosphorylated , translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation. ,subunit:Interacts with CBP , MYOCD , SIRT1 , SRF and YWHAZ. Acetylated by CBP and deacetylated by SIRT1. Binding of YWHAZ inhibits DNA-binding. ,tissue specificity:Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Isoform zeta is most abundant in the liver , kidney , and pancreas. ,

Validation Data

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: http://www.immunoway.com.cn
Address: 2200 Ringwood Ave San Jose, CA 95131 USA

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